

Christie NAS-S2

User Manual

020-101656-01

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NOTICES

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Products are warranted under Christie's standard limited warranty, the complete details of which are available by contacting your Christie dealer or Christie. In addition to the other limitations that may be specified in Christie's standard limited warranty and, to the extent relevant or applicable to your product, the warranty does not cover:

- a. Problems or damage occurring during shipment, in either direction.
- b. Projector lamps (See Christie's separate lamp program policy).
- c. Problems or damage caused by use of a projector lamp beyond the recommended lamp life, or use of a lamp other than a Christie lamp supplied by Christie or an authorized distributor of Christie lamps.
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- e. Problems or damage caused by the use of any lamp, replacement part or component purchased or obtained from an unauthorized distributor of Christie lamps, replacement parts or components including, without limitation, any distributor offering Christie lamps, replacement parts or components through the internet (confirmation of authorized distributors may be obtained from Christie).
- f. Problems or damage caused by misuse, improper power source, accident, fire, flood, lightning, earthquake or other natural disaster.
- g. Problems or damage caused by improper installation/alignment, or by equipment modification, if by other than Christie service personnel or a Christie authorized repair service provider.
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- i. Problems or damage caused by use of a projector in the presence of an oil-based fog machine or laser-based lighting that is unrelated to the projector.
- j. For LCD projectors, the warranty period specified in the warranty applies only where the LCD projector is in "normal use" which means the LCD projector is not used more than 8 hours a day, 5 days a week.
- k. Except where the product is designed for outdoor use, problems or damage caused by use of the product outdoors unless such product is protected from precipitation or other adverse weather or environmental conditions and the ambient temperature is within the recommended ambient temperature set forth in the specifications for such product.
- l. Image retention on LCD flat panels.
- m. Defects caused by normal wear and tear or otherwise due to normal aging of a product.

The warranty does not apply to any product where the serial number has been removed or obliterated. The warranty also does not apply to any product sold by a reseller to an end user outside of the country where the reseller is located unless (i) Christie has an office in the country where the end user is located or (ii) the required international warranty fee has been paid.

The warranty does not obligate Christie to provide any on site warranty service at the product site location.

PREVENTATIVE MAINTENANCE

Preventative maintenance is an important part of the continued and proper operation of your product. Please see the Maintenance section for specific maintenance items as they relate to your product. Failure to perform maintenance as required, and in accordance with the maintenance schedule specified by Christie, will void the warranty.

REGULATORY

The product has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a commercial environment. The product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of the product in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at the user's own expense.

CAN ICES-3 (A) / NMB-3 (A)

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The product is designed and manufactured with high-quality materials and components that can be recycled and reused. **This symbol**  means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from regular waste. Please dispose of the product appropriately and according to local regulations. In the European Union, there are separate collection systems for used electrical and electronic products. Please help us to conserve the environment we live in!

China RoHS Compliance Information

关于中国《电子信息产品污染控制管理办法》的说明

- Environmentally Friendly Use Period
环保使用期限



The year number in the centre of the label indicates the Environmentally Friendly Use Period, which is required to mark on the electronic information product sold in China according to the China RoHS regulations.

本标志中表示的年数是根据《电子信息产品污染控制管理办法》（2006年2月28日）以及《电子信息产品污染控制标识要求》（2006年11月6日）制定的、适用于在中华人民共和国境内销售的电子信息产品的环保使用期限。

- Material Concentration Values Table
有毒有害物质含量表

Part Name	部件名称	Material Concentration (有毒有害物质或元素)					
		铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr 6+)	多溴联苯 (PBB)	多溴二联苯醚 (PBDE)
Low voltage power supply	低压电源	X	O	O	O	O	O
Standby LVPS	备用低压电源	X	O	O	O	O	O
Switch	开关	X	O	O	O	O	O
Ballast	镇流器	X	O	O	O	O	O
Line filter	滤波器	X	O	O	O	O	O
Ignitor	点火器	X	O	O	O	O	O
Harness/cable	连接电线 / 缆	X	O	O	O	O	O
Integrated Cinema Processor	集成处理板	X	O	O	O	O	O
Projector Intelligence Board	智能板	X	O	O	O	O	O
Backplane	底板	X	O	X	O	O	O
Internal Motor Control Board	内部电机控制板	X	O	O	O	O	O
Touch Panel Controller	触摸控制屏	X	O	O	O	O	O
Blower/Fan	吹风机 / 风扇	O	O	O	O	O	O
Sensor	传感器	O	O	O	O	O	O
Illumination optics system	照明光学系统	X	O	X	O	O	O
Projection lens	投影镜头	X	O	X	O	O	O
Mechanical enclosure*	机械附件	X	O	O	O	O	O
Lamp	灯泡	X	O	O	O	O	O
Motorized intelligent lens mount (optional)	智能电动镜头架 (备选件)	X	O	O	O	O	O

Note:

O: indicates that the concentration value of the particular hazardous substance contained in all the homogeneous materials for this part, according to EIP-A, EIP-B, EIP-C, is below the stipulated levels in China SJ/T11363-2006.

表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 规定的限量要求以下。

X: indicates that the concentration value of the particular hazardous substance contained in all the homogeneous materials for this part, according to EIP-A, EIP-B, EIP-C, may be above the stipulated levels in China SJ/T11363-2006.

表示该有毒有害物质至少在该部件的某一均质材料中的含量可能超出 SJ/T11363-2006 规定的限量要求。

* This part uses metallic alloys, which may contain Lead.

- 因该部件使用金属合金材料，故可能含有铅。

Addendum

Translated copies of this document are provided on the CD in the back of this document. The CD may also contain additional product documentation. Read all instructions before using or servicing this product.

本文档的翻译副本在本文档背面的 CD 上提供。该 CD 中还可能包含其他产品文档。使用或维修本产品之前请务必阅读所有说明。

文件背面的光碟提供了本文件的翻譯副本。這張光碟可能另外包含其他產品文件。請先閱讀所有指示再使用或送修本產品。

Le CD au dos de ce document contient des traductions de celui-ci dans différentes langues. Ce CD peut également contenir de la documentation supplémentaire sur le produit. Lisez toutes les instructions avant d'utiliser ou d'entretenir ce produit.

Übersetzte Versionen dieses Dokuments werden auf der CD auf dem Vorsatzblatt dieses Dokuments bereitgestellt. Die CD kann auch zusätzliche Produktdokumentation enthalten. Bitte lesen Sie diese Anweisungen vor der Verwendung dieses Produkts oder vor der Ausführung von Wartungsarbeiten am Produkt.

Le copie tradotte di questo documento sono fornite sul CD, sul retro di questo documento. Il CD potrebbe anche contenere altra documentazione sul prodotto. Si prega di leggere tutte le istruzioni prima di utilizzare questo prodotto o sottoporlo a manutenzione.

このドキュメントの翻訳版がこのドキュメントの裏面の CD で提供されています。CD には追加の製品マニュアルも収められています。この製品を使用したり、機能させたりする前に、すべての指示をお読みください。

이 문서의 번역된 사본이 이 문서 후면의 CD 에서 제공됩니다. 이 CD 에는 추가 제품 설명서가 포함되어 있을 수 있습니다. 이 제품을 사용하거나 수리하기 전에 모든 지침을 확인하십시오.

Copias traduzidas deste documento são fornecida no CD contido na parte de trás deste documento. O CD pode conter documentação adicional do produto. Leia todas as instruções antes de usar ou prestar serviço com este produto.

Перевод данного документа представлен на компакт-диске на оборотной стороне документа. Компакт-диск может также содержать дополнительную документацию по продукту. Перед использованием или обслуживанием продукта ознакомьтесь со всеми инструкциями.

Las copias traducidas de este documento se proporcionan en el CD que se encuentra en la parte trasera. En el CD también puede encontrar documentación adicional del producto. Lea todas las instrucciones antes de utilizar o realizar el mantenimiento de este producto.

Перекладені екземпляри цього документа містяться на компакт-диску, який додано до цього документа. На компакт-диску може також бути додаткова документація до виробу. Перш ніж користуватися виробом або його обслуговувати, прочитайте всі інструкції.

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Installation and Setup

This section provides information and procedures for installing and configuring the Christie NAS-S2. Two installation methods are available; preconfigured and customized. The preconfigured set up uses the default settings provided by Christie. Use the customized set up to customize the network settings.

You can use the projector touch panel controller (TPC) menus or the web interface to set the communication settings between the Christie IMB-S2 and the Christie NAS-S2. If you use the web interface, the IP address of your computer must be on the same subnet as the projector and the computer must be connected by an Ethernet cable to the Ethernet port of the projector intelligence board (PIB).

This manual is intended for professionally trained operators of Christie projection systems. This manual assumes an intermediate understanding of projector functionality and network infrastructure.

Prerequisites

- A Christie NAS-S2 (P/N:108-502108-XX) that includes these items:
 - Ethernet cable
 - Christie NAS-S2
- A Christie projector with a Christie IMB-S2 installed and correctly configured.

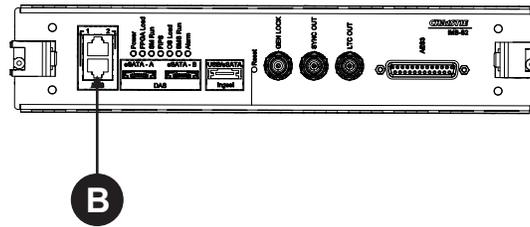
Preconfigured setup

Use this procedure to set up your Christie NAS-S2 device with the preconfigured settings. Port 1 of the preconfigured Christie NAS-S2 device uses the static IP address 192.168. 1.101.

1. Unpack the Christie IMB-S2 and install the hard drives. The hard drives are pre-configured and can be installed in any order.
2. Connect one end of an Ethernet cable to the right Ethernet port (A) on the Christie NAS-S2.



3. Connect the other end of the Ethernet cable to the NAS 1 port (B) on the Christie IMB-S2.



4. Connect the Christie NAS-S2 to AC power.
5. Turn the projector and the Christie NAS-S2 on.
6. Verify the NAS 1 IP address for the Christie IMB-S2 is configured correctly:
 - a. On the projector touch panel controller (TPC), tap **Menu** > **Christie IMB** > **System**.
 - b. Tap the **IMB Network** tab.
 - c. Confirm the IP address displayed in the IP Address field is **192.168.1.100**.
If it is not, type the IP address and tap **Save**.

Customized setup

Use these procedures to set up your Christie NAS-S2 and your Christie IMB-S2 with customized settings.

The IP addresses and folder names used in this document are provided as examples. Use IP addresses and share names that are unique to your theater environment.

Connect the Christie IMB-S2 and configure the network settings

1. Download and install the Christie Finder utility on your computer. This utility is available for download on the Christie Digital web site (www.christiedigital.com).
2. Connect one end of an Ethernet cable to a computer and the other end to the Ethernet port 1 on the Christie NAS-S2.
3. Open the Christie Finder utility. The utility automatically locates and displays the Christie NAS-S2.
4. Click **Configure**.
5. Enter the default administrator name **admin** and administrator password **cdsclub**. Click **OK**.
6. Click the **Network Settings** tab.
7. In the **Configuration of Network Interfaces** list, select **Standalone**.
8. Click the **Ethernet 1** tab.
9. Select **Use the following static IP settings**.

10. Complete these fields:

Field	Description
IP Address	192.168.1.101 (the Christie NAS-S2 Ethernet Port 1 IP address)
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0 or Christie NAS1 port IP address

11. Click **OK**.

12. Add your computer to the subnet of the NAS device:

- a. On the computer, click **Start > Control Panel**.
- b. Click **Network and Sharing Center**.
- c. Click **Change adapter settings** in the left pane.
- d. Right-click a network connection and select **Properties**.
- e. Select **Internet Protocol (TCP/IP)** in the **This connection uses the following items** list.
- f. Click **Properties**.
- g. Select **Use the following IP address**.
- h. Enter an IP address in the **IP address** field. The IP address must be on the same subnet as the Christie NAS-S2. In this example it is **192.168.1.15**.
- i. Enter **255.255.255.0** in the **Subnet mask** field.
- j. Click **OK**.

Create a network share folder

A share folder is required to allow the Christie IMB to store and play ingested content.

1. Open the Christie NAS-S2 management application interface:
 - a. Open a web browser. Christie recommends Mozilla FireFox or Google Chrome.
 - b. Enter **http://192.168.1.101:8080** in the **Address** field.
 - c. Press **Enter**.
2. Enter your user name and password and press **Enter**.
3. Enable the NFS service:
 - a. Click **Network**.
 - b. Click **Network Services** in the left pane.
 - c. Click **Win/Mac/NFS** in the right pane.
 - d. Click the **NFS Service** tab.
 - e. Click **Enable NFS Service**.
 - f. Click **Apply**.

4. Create a network share:
 - a. Click **Privilege Settings** in the left pane.
 - b. Click **Shared Folders** in the right pane.
 - c. Click **Create > Shared Folder**.
 - d. Type **Content** in the **Folder Name** field.
 - e. Select a disk volume for the share.
 - f. Click **Edit** in the **Configure access privileges for users** area.
 - g. Select **RW**.
 - h. Click **Create**.

Verify NFS is enabled and disable standby mode

1. Open the Christie NAS-S2 management application interface:
 - a. Open a web browser.
 - b. Enter **http://192.168.1.101:8080** in the **Address** field.
 - c. Press **Enter**.
2. Enter your user name and password and press **Enter**.
3. Verify NFS is enabled:
 - a. Click **Shared Folders**.
 - b. Select the **Content** folder.
 - c. Click the **Access Permissions** icon () in the **Action** column.
 - d. Select **NFS Host Access** in the **Select permission type** list.
 - e. Select **No limit** in the **Access right** list.
 - f. Click **Apply**.
4. Disable standby mode:
 - a. Click **System Settings > Hardware** in the left pane.
 - b. Clear the **Enables hard disk standby mode** checkbox.
 - c. Click **Apply All**.

Configure the Christie IMB communication settings

You can use the projector touch panel controller (TPC) menus or the web interface to set the communication settings between the Christie IMB and the Christie NAS-S2. If you use the web interface, the IP address of your computer must be on the same subnet as the projector and the computer must be connected by an Ethernet cable to the Ethernet port of the PIB.

1. Disconnect the Ethernet cable from the computer and connect it to the **NAS1** port on the Christie IMB.

2. On the projector TPC, tap **Menu > Christie IMB > System**.
3. Tap **IMB Network**.
4. In the **NAS 1** area, select **Static IP** and then complete these fields:
 - a. Enter **192.168.1.1** in the **IP Address** field.
 - b. Enter **255.255.255.0** in the **Netmask** field.Unless it is required for your installation, leave the **Gateway** field blank.
5. Select **DHCP** in the **NAS 2** area.

NOTICE

The IP address for port 2 must not be on the same subnet as port 1. In this example, it cannot start with 192.168.1.x

6. Tap **Save**.
7. Tap the **Storage** tab.
8. Tap **Add NAS**.
9. Tap **Primary**.
10. Tap **Yes**.
11. Complete these fields:
 - a. Enter **Christie NAS-S2** in the **Label** field.
 - b. Enter **192.168.1.101** in the **IP Address** field.
 - c. Enter **admin** in the **User** field.
 - d. Enter **admin** in the **Password** field.
 - e. Select **NFS** in the **File System** list.
 - f. Tap **Refresh Share Names** to update the **Share** list.
 - g. Select **/Content** in the **Share** list.
12. Tap **Test Connectivity**.
13. Tap **OK**.
14. Tap **Save**.
15. Tap **OK**.

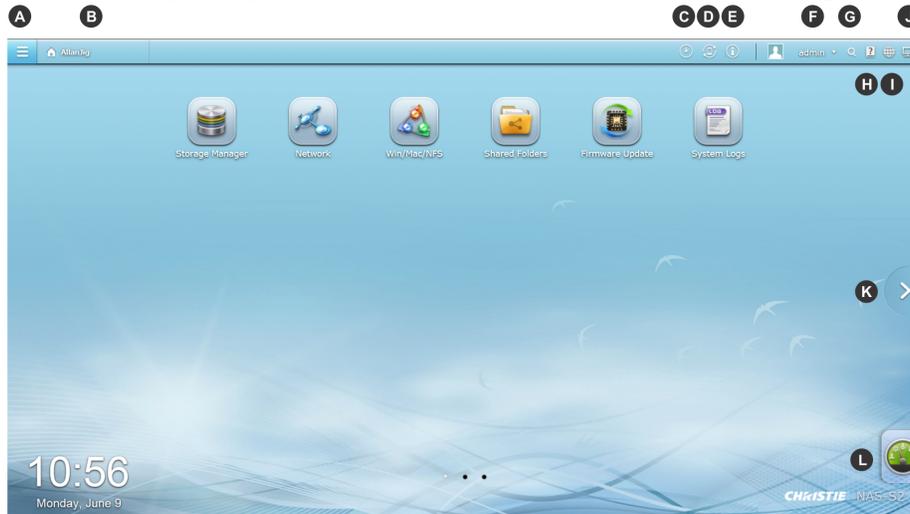
Modify user settings

1. Open the Christie NAS-S2 management application interface:
 - a. Open a web browser.
 - b. Enter **http://192.168.1.101:8080** in the **Address** field.
 - c. Press **Enter**.
2. Enter your user name and password and press **Enter**.

3. Click **Network** on the desktop.
4. Click **Privilege Settings** in the left pane.
5. Click **Users** in the right pane.

The Christie NAS-S2 management application interface

This illustration shows the primary screen elements of the Christie NAS-S2 management application:



Item	Description
A	Shows or hides the main menu.
B	Shows the desktop.
C	Shows the background tasks currently running.
D	Shows all external devices currently connected to the Christie NAS-S2 USB and eSATA ports.
E	Shows error and warning messages. Click Event Notifications to view system logs.
F	Opens a menu with these options: <ul style="list-style-type: none"> • Options (customizes application settings) • Change password • Sleep • Restart • Shutdown • Logout • About (provides application version information)
G	Searches for a function you specify.
H	Shows online help.
I	Changes the language used in the application.
J	Changes the appearance of the desktop icons.
K	Moves to the next or previous desktop.
L	Shows Christie NAS-S2 performance data.

Backup and Recovery

This section provides information and procedures for protecting the Christie NAS-S2 from power failures and restoring system settings.

Connect the Christie NAS-S2 to a UPS

Connect your Christie NAS-S2 to an Uninterruptible Power Supply (UPS) to protect it from an unexpected power disruption. Two options are available when a power disruption occurs:

- Automatically turn the Christie NAS-S2 off after a specific period. When this option is selected, the Christie NAS-S2 shuts down correctly. You must manually turn the Christie NAS-S2 on when power is restored.
- Automatically move the Christie NAS-S2 to auto-protection mode. When this option is selected, the Christie NAS-S2 automatically turns on when power is restored. If the duration of the power disruption is longer than the available UPS power, the Christie NAS-S2 might not shut down correctly and a data loss may occur.

When a power disruption occurs, information is saved in the System Event logs. See [View the system logs](#) on page 20.

Manage the UPS with a USB connection

1. Connect one end of a USB cable to the USB port on the back of the Christie NAS-S2.
2. Connect the other end of the USB cable to the UPS USB port.
3. Open the Christie NAS-S2 management application interface:
 - a. Open a web browser.
 - b. Enter **http://192.168.1.101:8080** in the **Address** field.
 - c. Press **Enter**.
4. Enter your user name and password and press **Enter**.
5. Click **Network** on the desktop.
6. Click **External Device** in the left pane.
7. Click the **UPS** tab in the right pane.
8. Click **Enable UPS Support**.
9. Select **Network UPS slave** in the **Protocol** list.
10. Enter the IP address of the UPS in the **IP address of network UPS server** field.
11. Select one of these options:

a. Turn off the server after the AC power fails for minute(s)

Select this option if you want the Christie NAS-S2 to wait a specific period before shutting down. Enter the number of minutes to wait for shut down.

b. The system will enter “auto-protection” mode after the AC power fails for minute(s)

Select this option if you want the Christie NAS-S2 to wait a specific period before entering auto-protection mode. Enter the number of minutes to wait before entering auto-protection mode.

12. Click **Apply All**.

Manage the UPS with the SNMP protocol

1. Connect the Christie NAS-S2 and the UPS to the same physical network.
2. Open the Christie NAS-S2 management application:
 - a. Open a web browser and type **http://192.168.1.101:8080** in the **Address** field. Press **Enter**.
 - b. Enter your user name and password and press **Enter**.
3. Click **Network** on the desktop.
4. Click **External Device** in the left pane.
5. Click the **UPS** tab in the right pane.
6. Click **Enable UPS Support**.
7. Select **UPS with SNMP management** in the **Protocol** list.
8. Enter the IP address of the UPS in the **IP Address of UPS** field.
9. Select one of these options:
 - a. Turn off the server after the AC power fails for minute(s)**

Select this option if you want the Christie NAS-S2 to wait a specific period before shutting down. Enter the number of minutes to wait for shut down.
 - b. The system will enter “auto-protection” mode after the AC power fails for minute(s)**

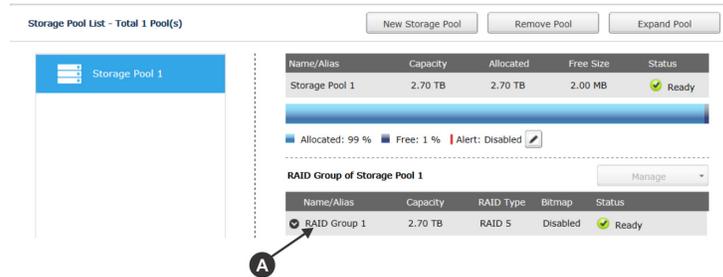
Select this option if you want the Christie NAS-S2 to wait a specific period before entering auto-protection mode. Enter the number of minutes to wait before entering auto-protection mode.
10. Click **Apply All**.

Recover a failed RAID group

In a RAID 5 configuration, two hard disk drives are required for volume recovery.

1. Confirm that all hard disks of that disk volume are properly seated in the NAS drive bays.
2. Open the Christie NAS-S2 management application interface:
 - a. Open a web browser.

- b. Enter **http://192.168.1.101:8080** in the **Address** field.
 - c. Press **Enter**.
3. Enter your user name and password and press **Enter**.
4. Click **Storage Manager** on the desktop.
5. Click **Storage Pools** in the left pane.
6. Select a raid group in the RAID Group area (A).



7. Click **Manage > Recover**.
8. Back up your data:
 - a. Click **Search**.
 - b. Type **backup**.
 - c. Click **Backup Server**.

Update the Christie NAS-S2 firmware

1. Download the Christie NAS-S2 firmware from the Christie web site (www.christiedigital.com).
2. Open the Christie NAS-S2 management application interface:
 - a. Open a web browser.
 - b. Enter **http://192.168.1.101:8080** in the **Address** field.
 - c. Press **Enter**.
3. Enter your user name and password and press **Enter**.
4. Click **Firmware Update** on the desktop.
5. Click the **Firmware Update** tab.
6. Click **Browse** and browse to the location of the firmware you downloaded in step 1.
7. Click **Open**.
8. Click **Update System**.

Troubleshooting

This section provides information and procedures for resolving common projector issues. If you cannot resolve a projector issue, contact Christie support.

View the system logs

1. Open the Christie NAS-S2 management application interface:
 - a. Open a web browser.
 - b. Enter **http://192.168.1.101:8080** in the **Address** field.
 - c. Press **Enter**.
2. Enter your user name and password and press **Enter**.
3. Click **System Logs** on the desktop.

View Christie NAS-S2 status information

1. Open the Christie NAS-S2 management application interface:
 - a. Open a web browser.
 - b. Enter **http://192.168.1.101:8080** in the **Address** field.
 - c. Press **Enter**.
2. Enter your user name and password and press **Enter**.
3. Click **Network** on the desktop.
4. Click **System Status** in the left pane.

Christie NAS-S2 status LEDs

This table provides descriptions of the Christie NAS-S2 status LEDs:

LED	Activity	Description
System Status	Flashing red and green	<ul style="list-style-type: none"> The network attached storage (NAS) hard drive is being formatted. The NAS is being initialized. A system firmware update is in progress. The redundant array of independent disks (RAID) are being rebuilt. The RAID capacity is being expanded. An online RAID migration is in progress.
	Solid red	<ul style="list-style-type: none"> The hard drive is invalid. The disk volume has reached its capacity. The disk volume is approaching maximum capacity. A system fan is not working. A read or write error occurred while accessing data. The hard drive has a bad sector. Two of the NAS hard drives in a RAID 5 or RAID 6 configuration has failed, but the data can still be read. A hardware self-test error has occurred.
	Flashing red	<ul style="list-style-type: none"> One of the NAS hard drives in a RAID 1, RAID 5, or RAID 6 configuration has failed.
	Flashing green	<ul style="list-style-type: none"> The NAS is starting. The NAS is not configured. The hard drive is not formatted.
	Solid green	<ul style="list-style-type: none"> The NAS is ready.
	Off	<ul style="list-style-type: none"> All NAS hard drives are in standby mode.
LAN	Solid orange	<ul style="list-style-type: none"> A read or write error occurred while accessing network data.
	Flashing orange	<ul style="list-style-type: none"> The NAS is connected to the network.
HDD	Flashing red	<ul style="list-style-type: none"> The NAS is being accessed from the network.
	Solid red	<ul style="list-style-type: none"> A read or write error occurred.
	Flashing green	<ul style="list-style-type: none"> Disk data is being accessed.
	Solid green	<ul style="list-style-type: none"> The hard drive can be accessed.
USB	Flashing blue	<ul style="list-style-type: none"> A device is detected. A device is being removed from the NAS. A device is being accessed. Data is being copied to or from the USB or eSATA device.
	Solid blue	<ul style="list-style-type: none"> A device connected to the front USB port is detected.
	Off	<ul style="list-style-type: none"> A device is not connected or detected. The data transfer between the USB device and the NAS is complete.

LED	Activity	Description
eSATA	Flashing orange	<ul style="list-style-type: none"> A device is being accessed.
	Off	<ul style="list-style-type: none"> A device is not connected or detected.

Christie NAS-S2 audible alarm

The audible alarm indicates the Christie NAS-S2 operational status.

Sound Pattern	Repetition	Description
Short	1X	<ul style="list-style-type: none"> The Christie NAS-S2 is starting The Christie NAS-S2 is shutting down (software) The reset button was pressed The system firmware was updated
Short	3X	Data cannot be copied to the external storage device from the front USB port.
Short followed by long	3X (5 minute intervals)	The system fan has stopped working.
Long	2X	<ul style="list-style-type: none"> The disk volume is reaching its capacity The disk volume is at full capacity The hard disk drives are in degraded mode The hard drive is rebuilding
	1X	<ul style="list-style-type: none"> A hardware shutdown has occurred The Christie NAS-S2 is on and ready



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